

AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Currently amended) ~~The~~ A TDMA radio communication system ~~according to claim 1, that~~
uses a multiple subcarrier modulation method, comprising:

at least a first and a second radio station, wherein said first radio station carries out
communications by selecting and then modulating only a subcarrier with which a desired transfer
rate can be obtained in said second radio station, wherein
said second radio station ~~comprises~~includes:

a power detection ~~means for~~unit detecting ~~the~~ a received power for each subcarrier and
detecting ~~the~~ an interference power from another radio station with which said second radio
station is communicating; and

a notification ~~means for~~unit notifying said first radio station of information regarding said
received power and said interference power detected by said power detection ~~means~~unit, and
wherein

said first radio station ~~comprises~~includes:

a subcarrier selection ~~means for~~unit selecting, based on a reception state and an
interference state of each subcarrier that have been returned from said second radio
station, only a subcarrier with which a desired transmission rate can be achieved in said
second radio station, wherein only the subcarrier that has been selected by said subcarrier
selection ~~means~~ unit is selected and modulated for communication.

3. (Currently amended) The TDMA radio communication system according to claim 2, wherein said power detection ~~means~~unit ~~comprises~~comprising an interference power determination ~~means~~unit, a memory ~~means~~unit, and a calculation ~~means~~unit, wherein said first radio station is grouped with other first radio stations that provide interference in a communication area of said first radio station, wherein said interference power determination ~~means~~unit extracts or calculates, upon transmission of a notification signal from each of said grouped first radio stations one by one successively, an interference power state for each subcarrier of said second radio station, wherein the ~~calculated~~calculated value is stored in said memory ~~means~~unit, and wherein said calculation ~~means~~unit calculates a ratio of a desired wave power to an interference power for each subcarrier.

4. (Currently amended) The TDMA radio communication system according to claim 2, wherein said power detection ~~means~~unit comprises an interference power measuring ~~means~~unit and a calculation ~~means~~unit, wherein said first radio station is grouped with other first radio stations that provide interference within a communication area of said first radio station, wherein each of said grouped first radio stations transmits a notification signal at the same time, wherein said interference power measuring ~~means~~unit measures, upon termination of the transmission from said first radio stations one by one successively and periodically in a cyclic manner, the interference power of said first radio stations other than said first station with which said second radio station is communicating, for each subcarrier, and wherein said calculation ~~means~~unit calculates a ratio of a desired wave power to an interference power for each subcarrier.

5. (Currently amended) A ~~second radio station in a~~ TDMA radio communication system that uses a multiple subcarrier modulation method, ~~and that comprises~~ comprising at least a first radio station and ~~said a~~ second radio station, ~~in which system~~ wherein said first radio station conducts communications by selectively modulating a subcarrier with which a desired transfer rate can be obtained in said second radio station, wherein said second radio station ~~comprising~~ includes:

a power detection ~~means for~~ unit detecting a received power for each subcarrier ~~and an interference power~~ from a radio station other than said first radio station with which said second radio station is communicating, for each subcarrier; ~~and~~

a notification ~~means for~~ unit notifying said first radio station of information regarding said received power ~~and said interference power~~ detected by said power detection ~~means~~ unit; ~~and~~

a subcarrier selection unit selecting, based on the information regarding said received power of each subcarrier that have been returned from said second radio station, only a subcarrier with which a desired transmission rate can be achieved in said second radio station, wherein only the subcarrier that has been selected by said subcarrier selection unit is selected and modulated for communication.

6-10 (Withdrawn)

11. (New) A communication method wherein a first communication destination carries out communications by selecting and then modulating only a subcarrier with which a desired transfer

rate can be obtained in a second communication destination, wherein the communication method includes the following steps:

detecting a received power for each subcarrier and detecting a interference power from another communication destination with which said second communication destination is communicating;

notifying said first communication destination of information regarding said received power and said interference power detected; and

selecting, based on a reception state and an interference state of each subcarrier that have been returned from said second communication destination, only a subcarrier with which a desired transmission rate can be achieved in said second communication destination, wherein only the subcarrier that has been selected is selected and modulated for communication.